

CA4 ON HBL Q15
81 P67A

URBAN/MUNICIPAL

PHILLIPS BARRATT

Proposal for Specialist Consultant
Arena/Trade Centre Project.

PHILLIPS BARRATT
ENGINEERS AND ARCHITECTS

2236 WEST 12th AVE., VANCOUVER, B.C. V6K 2N7

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R. P. OTT, P.Eng., L. K. NAROD, P.Eng., D. A. McCOY, M.R.A.I.C., J. DUDRA, P.Eng., J. E. AKERLEY, P.Eng., I. W. HARGREAVES, P.Eng.,
T. LAWRENCE, P.Eng., H. J. WOOD, P.Eng., J. LING, P.Eng., R. SANDY, P.Eng.,

CAHON HBL Q15
81P67A

August 15, 1981

The Corporation of the City of Hamilton,
City Hall,
Hamilton, Ontario.
L8N 3T4

HAMILTON PUBLIC LIBRARY
JAN 11 1984
GOVERNMENT DOCUMENTS

Attention: Mr. E. A. Simpson
City Clerk

Dear Sirs:

Re: Proposal for Specialist Consultant
Arena/Trade Centre Project

We wish to confirm our interest in assisting you as a specialist consultant for your proposed new Arena/Trade Centre Project.

We feel that our firm can make a particularly useful contribution to this project because of the following qualifications:

- Phillips Barratt have successfully completed the architectural and engineering design for many large multi-purpose Arena/Trade Centre projects including the Pacific Coliseum, the Edmonton Coliseum, the Regina Agrodome and the Lethbridge Sportsplex. We are currently completing the design of the 60,000 seat indoor multi-purpose stadium now under construction in Vancouver. To our knowledge no other Canadian consultants can claim this level of experience.
- We can provide within one firm architectural, structural, mechanical and electrical consultants and designers with an intimate knowledge of Arena/Trade Centre design. The project leaders for all the above-mentioned buildings will be available for your project.
- Our substantial research and experience over the past fifteen years can help you to avoid design pitfalls and to improve upon existing designs for multi-purpose arenas.
- The rarity of similar projects has resulted in "coliseum-type" buildings not being adequately covered by building codes. We have become familiar with the special safety requirements applicable to the movement of thousands of spectators in and out of these buildings during short peak periods.

.../2

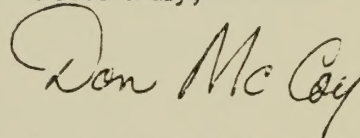


To: Mr. E. A. Simpson,
The Corporation of the City of Hamilton

- We can assist you and your Prime Consultants with the budget control for this project. Our major Arena/Trade Centre projects were constructed within more limited budgets than facilities of comparable size built in the U.S.A. during the same periods, yet many management personnel and users have insisted that both the Edmonton and Pacific Coliseums are among the most functional and attractive facilities available.

We thank you for the opportunity to present this proposal. We would be pleased to furnish any further information you may require to assess our capabilities or to meet with you to discuss our proposal.

Yours truly,



D. A. McCoy, M.R.A.I.C.

DAM/jlf
Encl:

THE FIRM

Phillips Barratt, founded in 1937, is an integrated firm of engineers, architects and construction managers, providing a complete and coordinated service to all levels of government, industry and commerce.

Fifteen partners personally direct a large supporting staff of civil, structural, electrical and mechanical engineers, architects and technologists.

During the last ten years the firm has averaged over 140 projects per year including feasibility studies, master planning, detailed design, and construction management. Some of these projects are:

Vancouver International Airport Air Terminal Building

Phillips Barratt was the Prime Consultant for this project which was designed in 1966. Since 1974 we have provided all the architectural, structural, mechanical and electrical design and construction inspection services for over \$30,000,000 of additions and modifications to enable the facility to keep pace with increased air traffic. This project has provided us with considerable design experience in the control of large pedestrian flows.

Air Canada Maintenance Base Vancouver International Airport

and

CP Air Operations Centre Vancouver International Airport

Phillips Barratt provided all architectural, structural, mechanical and electrical design and construction supervision services for these two facilities. The firm gained considerable experience in long-span roof design as both projects house the largest commercial aircraft.

THE 1950s

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In addition to the above, the firm has provided all architectural and engineering design services for numerous Schools, College and University Buildings, Municipal Buildings, Commercial Buildings and Industrial Projects.

The firm has also been involved in the design and construction management of various projects relating to the above mentioned categories over the past several years. The firm provides complete architectural and engineering design services for the following projects:

Public Buildings

A multi-purpose 11,000 sq. ft. Annex/Trade Center at the P.H.S. in Houston. The building houses a variety of shops, including a variety of retail and food services. Philips Barrett was responsible for design, construction and working with the Construction Management firm for the project.

Commercial Buildings

A multi-purpose 13,000 sq. ft. Annex/Trade Center in the Houston area. The building was designed to accommodate a variety of retail and food services to increase the ultimate capacity to 20,000 permanent seats.

University Buildings

A multi-purpose 3,200 sq. ft. Annex/Trade Center. The building was designed to house an additional 1,200 permanent seats to accommodate future demand. In addition to full design services, Philips Barrett provided complete Construction Management and Budget Control services for the project.

Engine Buildings

A multi-purpose 6,000 sq. ft. Annex/Trade Center at the Texas Education grounds. The building was designed to house an additional 1,500 permanent seats to accommodate future demand. Although Philips Barrett provided the conceptual design and all detailed engineering design, local architects were the prime consultants. Construction Management Services were provided by the prime consultant and architect.

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ARENA/TRADE CENTRE EXPERIENCE

Phillips Barratt have been fortunate to acquire substantial design and construction management experience relating to Arena/Trade Centres over the past fifteen years. The firm provided complete architectural and engineering design services for the following projects:

Pacific Coliseum

A multi-purpose 15,000 seat Arena/Trade Centre at the P.N.E. in Vancouver. The building houses a variety of events, including concerts seating over 17,000 spectators. Phillips Barratt was responsible for budget control and assisting with the Construction Management on this project.

Northlands Coliseum

A multi-purpose 15,000 seat Arena/Trade Centre at the exhibition grounds in Edmonton. The building was designed to accommodate additional permanent seating to increase the ultimate capacity to 20,000 permanent seats.

Lethbridge Sportsplex

A multi-purpose 5,500 seat Arena/Trade Centre. The building was designed to house an additional 1,500 permanent seats to accommodate future demand. In addition to full design services, Phillips Barratt provided complete Construction Management and Budget Control services for this project.

Regina Agridome

A multi-purpose 6,000 seat Arena/Trade Centre at the Regina Exhibition grounds. The building was designed to house an additional 1,500 permanent seats to accommodate future demand. Although Phillips Barratt provided the conceptual design and all detailed engineering design, local architects were the prime consultants. Construction Management Services were provided by the prime consultant and ourselves.

ASIAN/PAKISTAN COASTAL DEVELOPMENT

During 1980, the Government of Pakistan was involved in securing substantial foreign aid for coastal development. The Government was seeking to attract foreign investment in the coastal zone. The Government was also seeking to attract foreign aid for coastal development. The Government was also seeking to attract foreign aid for coastal development.

Pakistan Coastal Development

A total of 1,500 million Pakistan Rupees (150 million US dollars) was allocated for coastal development. The Government was seeking to attract foreign investment in the coastal zone. The Government was also seeking to attract foreign aid for coastal development. The Government was also seeking to attract foreign aid for coastal development.

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B. C. Place Amphitheatre

This 60,000 seat multi-purpose indoor stadium is presently under construction in Vancouver. Phillips Barratt are the prime consultants and are currently completing the final architectural, structural, mechanical and electrical design for the project.

In addition to the above projects, the firm has completed numerous smaller multi-purpose arena/community centre projects.

During the course of these projects the firm has successfully resolved many distinctive problems of multi-purpose, spectator-oriented buildings such as sight lines, long-span roofs, movable seating, acoustics, pedestrian control, lighting, media accommodation and other support facilities.

PERSONNEL

We will provide specialist consultants, for all architectural and engineering disciplines, who are each experienced in the design of Area/Trade Centre facilities. The proposed leadership team is as follows.

Don McCoy, M.R.A.L.C. - Partner & Head of Architectural Department

Mr. McCoy has been with Phillips Barratt for over 20 years and has been directly responsible for the design of all the firm's Arena/Trade Centre projects and multi-purpose community recreation projects. He is currently directing the completion of architectural design for Vancouver's new 60,000 seat covered stadium. Mr. McCoy will have overall responsibility for our services on your project, he will coordinate our specialist consultants, he will direct the preliminary design and will provide his architectural consulting services to you and your prime consultant.

Joe Judra, P. Eng. - Partner & Head of Structural Department

Mr. Judra has been with Phillips Barratt for over twenty-five years and has personally directed the structural work for all our Arena/Trade Centre projects. He has considerable experience in long-span structures including both buildings and bridges. Mr. Judra would act as specialist structural consultant on your project and would provide an evaluation of alternative roof concepts.

Roy Sandy, P. Eng. - Partner & Head of Mechanical Department

Mr. Sandy has twenty-five years experience in his field and has personally directed the mechanical work for all our Arena/Trade Centre and Community Centre projects for the last nine years. He has considerable experience in the heating, ventilating, air conditioning and plumbing services for these multi-purpose facilities. Mr. Sandy would act as specialist mechanical consultant on your project and would advise on all building and site services.

THE SCHEME

The first group, consisting of the following members, was appointed to study the various aspects of the problem and to report to the Committee on the progress of their work.

THE SCHEME, 1914-1915 - 1916-1917

The first group, consisting of the following members, was appointed to study the various aspects of the problem and to report to the Committee on the progress of their work. The second group, consisting of the following members, was appointed to study the various aspects of the problem and to report to the Committee on the progress of their work. The third group, consisting of the following members, was appointed to study the various aspects of the problem and to report to the Committee on the progress of their work.

THE SCHEME, 1917-1918 - 1919-1920

The fourth group, consisting of the following members, was appointed to study the various aspects of the problem and to report to the Committee on the progress of their work. The fifth group, consisting of the following members, was appointed to study the various aspects of the problem and to report to the Committee on the progress of their work. The sixth group, consisting of the following members, was appointed to study the various aspects of the problem and to report to the Committee on the progress of their work.

THE SCHEME, 1921-1922 - 1923-1924

The seventh group, consisting of the following members, was appointed to study the various aspects of the problem and to report to the Committee on the progress of their work. The eighth group, consisting of the following members, was appointed to study the various aspects of the problem and to report to the Committee on the progress of their work. The ninth group, consisting of the following members, was appointed to study the various aspects of the problem and to report to the Committee on the progress of their work.

John Ling, P. Eng. - Partner & Head of Electrical Department

Mr. Ling has over twenty-five years experience in his field and has personally directed the electrical work for all our Arena/Trade Centre and Community Centre projects for the last nine years. Mr. Ling would act as specialist electrical consultant on your project and would advise on all electrical services for both building and surrounding site.

Vladimir Syrovatka, M.R.A.I.C. - Senior Designer

Mr. Syrovatka has been with Phillips Barratt for six years in the capacity of Senior Designer. He has considerable experience in the design of large spectator-oriented buildings in both Europe and Canada and has won sixteen design awards for major architectural and planning projects. He would participate in the development of the design concept for your project.

Lou Osipov, P. Eng. - Former Chairman of Phillips Barratt

Mr. Osipov served as project manager for both the Pacific Coliseum and the Edmonton Coliseum and is currently the project manager for Vancouver's new 60,000 seat covered stadium now under construction. He would bring his special knowledge of these large multi-purpose facilities to this project and would serve as specialist consultant covering all phases of the work.

John C. B. B. - Director of Technical Department

The firm has over twenty-five years experience in the field and has successfully directed the electrical work for all the American Cable and Communications Company projects in the last five years. The firm would act as specialist consultant throughout the project and would advise on all electrical matters for both building and surrounding area.

Victor J. B. - Senior Engineer

Mr. J. B. has been with the firm for the past 10 years in the capacity of Senior Engineer. He has considerable experience in the design of large power plant buildings in both Europe and Canada and has been active in design work for major industrial and power projects. He would participate in the development of the design concept for the project.

John C. B. B. - Former Chairman of Design Board

Mr. B. B. acted as project manager for both the Pacific Cable and the American Cable and is currently the project manager for the firm's new 25,000 sq. ft. power station and water treatment. He would bring his special knowledge of these large multi-system facilities to the project and would serve as specialist consultant covering all phases of the work.

SCHEDULE

We estimate the following amount of time will be required for each phase of the work:

- Part A - Space & Facilities Program**
September 15, 1981 to October 31, 1981
- Part B - Preliminary & Concept Drawings**
October 31, 1981 to January 31, 1982
- Part C - Cost Estimate**
Ongoing to January 31, 1982
- Part D - General Consulting Services**
January 31, 1982 to December 31, 1982 Design
January 1, 1983 to July 1984 Construction

The above schedule is based upon the assumption that the design and construction schedules will not overlap using Construction Management or "fast-tracking" techniques.

APPROACH & PROCEDURES

Our approach to this program of specialist consulting services is based upon the following objectives:

- a) We will provide an over-view of the architectural, structural, mechanical and electrical from the beginning of the Space and Facilities Program to the completion of construction.
- b) We will work closely with the City, your prime consultants and any other specialist consultants appointed to transmit our research, knowledge and experience to your team which will carry out the detailed design and construction inspection services.
- c) We will review with you and your prime consultants all basic design alternatives with the objectives of obtaining the most functional and attractive building for the least amount of money. The review will include:
 - . Different seating configurations and building shape.
 - . Feasibility and cost of roof alternatives.
 - . Optional multi-purpose uses and cost provisions for these uses.
 - . Options and costs for specialty items such as seating, scoreboard, sound system, concessions and media facilities.
 - . Options and costs for finishes and maintenance provisions.
 - . Options and costs for electrical and mechanical services.
- d) Since Building Codes relate inadequately to a structure of this size and type, we would work closely with the City and Fire Authorities to arrive at practical and safe interpretation of the Ontario Building Code as it applies to number and width of aisles, exits, fire doors, aisle risers, fire separations, alarm and sprinkler systems.

APPENDIX 1

The contract for the design of the building is to be made with the following conditions:

1. The design is to be made on the basis of the information provided by the client and the architect. The design is to be made in accordance with the requirements of the client and the architect.

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- e) Working with you and your other consultants, we will develop a complete set of preliminary and conceptual plans including:
- . Site plan
 - . Floor plans of all levels
 - . Building elevations
 - . Typical sections to describe the building construction
 - . Perspective sketches illustrating proposed architectural concept
 - . Diagrammatic sketches illustrating suggested structural, mechanical and electrical concepts.
 - . Report on suggested finishes
- f) During the detail design phase and the construction phase we will provide general consulting and advisory services to the City, including a review of the work performed by the prime consultant and review of all major changes to the plans.

FEES

We propose charging a lump-sum fee plus expenses for each phase of the work as follows:

Part A - Space & Facilities Program

Fee	\$ 30,000
Estimated Expenses	\$ 5,000

Part B - Preliminary & Conceptual Design

Fee	\$ 190,000
Estimated Expenses	\$ 30,000

Part C - Cost Estimate

Fee	\$ 10,000
Estimated Expenses (Included in A & B)	

Part D - General Consulting Services

Fee	\$ 120,000
Estimated Expenses	\$ 60,000

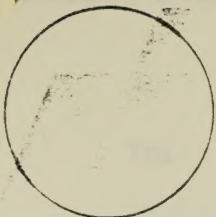
For all Specialist Consulting Services as outlined in your terms of reference our fee would be \$350,000 plus expenses. Expenses would include printing expenses, travel costs, long-distance telephone calls and other out of pocket disbursements. Fees would be billed monthly according to the percentage of the work completed for each phase. Expenses would be billed monthly.

1982

The project is being a two-year job with expenses for each phase of the work as follows:

Part A - Phase A Preliminary Design	
For	\$ 20,000
Estimated Expenses	\$ 2,000
Part B - Preliminary & Conceptual Design	
For	\$ 100,000
Estimated Expenses	\$ 10,000
Part C - Civil Design	
For	\$ 10,000
Estimated Expenses (Phase A & B)	
Part D - General Consulting Services	
For	\$ 120,000
Estimated Expenses	\$ 10,000

For all specified Consulting Services as outlined in your letter of reference and the work on \$100,000 per annum. Expenses would include printing expenses, travel costs, long-distance telephone calls and other out of pocket expenditures. Fees would be billed monthly according to the percentage of the work completed for each month. Expenses would be billed monthly.



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ENGINEERS AND ARCHITECTS

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August 15, 1981

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Attention: Mr. E. A. Simpson
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TO THE MEMBERS OF THE CHURCH BAPTIST
AND TO THE MEMBERS OF THE CHURCH OF THE SOUTH
AND TO THE MEMBERS OF THE CHURCH OF CHRIST
AND TO THE MEMBERS OF THE CHURCH OF GOD
AND TO THE MEMBERS OF THE CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS
AND TO THE MEMBERS OF THE CHURCH OF THE FUTURE

August 1968

The Church of the City of Washington

City Hall

Washington, D.C.

20004

Rev. Dr. J. A. Johnson

City Hall

Dear Sir:

The Church of the City of Washington

Washington, D.C.

We are in receipt of your letter of August 1968 in which you are a member of the Church of the City of Washington.

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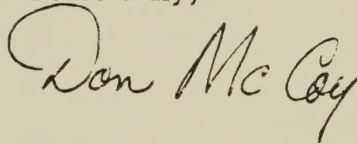
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Yours truly,



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CP Air Operations Centre Vancouver International Airport

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THE PLAN

During the past few years the Government has been engaged in a program of development and modernization of the economy, including a program of industrialization and modernization of the service sector of the economy, industry and commerce.

It is the Government's policy to develop a large, modern, and efficient industrial, scientific and technological sector, and to develop a large, modern, and efficient service sector.

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Industrial Development

For the future

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Construction management experience relating to Arms/Trade Centres over the last fifteen years. The firm provided complete architectural and engineering design services for the following projects:

Public Buildings

A multi-purpose 13,000 sqm Arms/Trade Centre at the R.F.D. in Vancouver. The building houses a variety of events, including concerts seating over 17,500 musicians. Phillips Barnett was responsible for design control and building with the Construction Management of this project.

Northlands College

A multi-purpose 13,000 sqm Arms/Trade Centre at the university grounds in Edmonton. The building was designed to accommodate additional permanent seating to increase the stadium capacity to 20,000 permanent seats.

Lakeland Sportsplex

A multi-purpose 5,000 sqm Arms/Trade Centre. The building was designed to house an additional 1,500 permanent seats to accommodate future demand. In addition to full design services, Phillips Barnett provided complete Construction Management and Budget Control services for this project.

Regina Exhibition

A multi-purpose 8,000 sqm Arms/Trade Centre at the Regina Exhibition grounds. The building was designed to house an additional 1,500 permanent seats to accommodate future demand. Although Phillips Barnett prepared the conceptual design and all detailed engineering design, local architects were the prime consultants. Construction Management Services were provided by the prime consultant and ourselves.

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ANALYSIS OF THE PROJECT

The project has been designed to provide a comprehensive and integrated management system for the project. The project is designed to provide a comprehensive and integrated management system for the project. The project is designed to provide a comprehensive and integrated management system for the project.

Project Objectives

A multi-phase project is being undertaken to provide a comprehensive and integrated management system for the project. The project is designed to provide a comprehensive and integrated management system for the project. The project is designed to provide a comprehensive and integrated management system for the project.

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B. C. Place Amphitheatre

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In addition to the above projects, the firm has completed numerous smaller multi-purpose arena/community centre projects.

During the course of these projects the firm has successfully resolved many distinctive problems of multi-purpose, spectator-oriented buildings such as sight lines, long-span roofs, movable seating, acoustics, pedestrian control, lighting, media accommodation and other support facilities.

3.1.2.2. Data Analysis

The 1995 and 1996 data were analyzed using a Pearson's chi-square test to determine if there was a significant difference in the proportion of respondents who reported that they had been exposed to the agent. The results of the chi-square test are presented in Table 3.1.2.2.1.

In addition to the chi-square test, the data were analyzed using a logistic regression model to determine if there was a significant association between the independent variables and the dependent variable.

During the course of this study, the data were analyzed using a series of descriptive statistics to determine the distribution of the data. The results of the descriptive statistics are presented in Table 3.1.2.2.2. The results of the descriptive statistics indicate that the data are normally distributed and that there is no significant difference in the proportion of respondents who reported that they had been exposed to the agent.

PERSONNEL

We will provide specialist consultants, for all architectural and engineering disciplines, who are each experienced in the design of Area/Trade Centre facilities. The proposed leadership team is as follows.

Don McCoy, M.R.A.L.C. - Partner & Head of Architectural Department

Mr. McCoy has been with Phillips Barratt for over 20 years and has been directly responsible for the design of all the firm's Arena/Trade Centre projects and multi-purpose community recreation projects. He is currently directing the completion of architectural design for Vancouver's new 60,000 seat covered stadium. Mr. McCoy will have overall responsibility for our services on your project, he will coordinate our specialist consultants, he will direct the preliminary design and will provide his architectural consulting services to you and your prime consultant.

Joe Judra, P. Eng. - Partner & Head of Structural Department

Mr. Judra has been with Phillips Barratt for over twenty-five years and has personally directed the structural work for all our Arena/Trade Centre projects. He has considerable experience in long-span structures including both buildings and bridges. Mr. Judra would act as specialist structural consultant on your project and would provide an evaluation of alternative roof concepts.

Roy Sandy, P. Eng. - Partner & Head of Mechanical Department

Mr. Sandy has twenty-five years experience in his field and has personally directed the mechanical work for all our Arena/Trade Centre and Community Centre projects for the last nine years. He has considerable experience in the heating, ventilating, air conditioning and plumbing services for these multi-purpose facilities. Mr. Sandy would act as specialist mechanical consultant on your project and would advise on all building and site services.

TESTIMONY

The first person mentioned in the list is Mr. [Name], who is a [Title] at [Organization]. He has been involved in the [Project] for [Time] and has been responsible for [Responsibilities].

Mr. [Name], [Title] - [Organization]

Mr. [Name] has been with [Organization] for over [Time] and has been responsible for the design of all the [Project] for [Organization]. He is currently working on the [Project] and has been responsible for the design of the [Project]. He has been involved in the [Project] for [Time] and has been responsible for the design of the [Project]. He has been involved in the [Project] for [Time] and has been responsible for the design of the [Project].

Mr. [Name], [Title] - [Organization]

Mr. [Name] has been with [Organization] for over [Time] and has been responsible for the design of all the [Project] for [Organization]. He is currently working on the [Project] and has been responsible for the design of the [Project]. He has been involved in the [Project] for [Time] and has been responsible for the design of the [Project]. He has been involved in the [Project] for [Time] and has been responsible for the design of the [Project].

Mr. [Name], [Title] - [Organization]

Mr. [Name] has been with [Organization] for over [Time] and has been responsible for the design of all the [Project] for [Organization]. He is currently working on the [Project] and has been responsible for the design of the [Project]. He has been involved in the [Project] for [Time] and has been responsible for the design of the [Project]. He has been involved in the [Project] for [Time] and has been responsible for the design of the [Project].

John Ling, P. Eng. - Partner & Head of Electrical Department

Mr. Ling has over twenty-five years experience in his field and has personally directed the electrical work for all our Arena/Trade Centre and Community Centre projects for the last nine years. Mr. Ling would act as specialist electrical consultant on your project and would advise on all electrical services for both building and surrounding site.

Vladimir Syrovatka, M.R.A.I.C. - Senior Designer

Mr. Syrovatka has been with Phillips Barratt for six years in the capacity of Senior Designer. He has considerable experience in the design of large spectator-oriented buildings in both Europe and Canada and has won sixteen design awards for major architectural and planning projects. He would participate in the development of the design concept for your project.

Lou Osipov, P. Eng. - Former Chairman of Phillips Barratt

Mr. Osipov served as project manager for both the Pacific Coliseum and the Edmonton Coliseum and is currently the project manager for Vancouver's new 60,000 seat covered stadium now under construction. He would bring his special knowledge of these large multi-purpose facilities to this project and would serve as specialist consultant covering all phases of the work.

SCHEDULE

We estimate the following amount of time will be required for each phase of the work:

- Part A - Space & Facilities Program**
September 15, 1981 to October 31, 1981
- Part B - Preliminary & Concept Drawings**
October 31, 1981 to January 31, 1982
- Part C - Cost Estimate**
Ongoing to January 31, 1982
- Part D - General Consulting Services**
January 31, 1982 to December 31, 1982 Design
January 1, 1983 to July 1984 Construction

The above schedule is based upon the assumption that the design and construction schedules will not overlap using Construction Management or "fast-tracking" techniques.

SCHEDULE

The following schedule of work will be required for each phase of the work:

Part A - Initial Design
November 15, 1961 to December 15, 1961

Part B - Preliminary Design
December 15, 1961 to January 15, 1962

Part C - Final Design
January 15, 1962 to February 15, 1962

Part D - General Contracting Services
January 15, 1962 to December 31, 1962
January 1, 1963 to June 30, 1963

The above schedule is based upon the assumption that the design and construction activities will be carried out continuously throughout the "fast-track" program.

APPROACH & PROCEDURES

Our approach to this program of specialist consulting services is based upon the following objectives:

- a) We will provide an over-view of the architectural, structural, mechanical and electrical from the beginning of the Space and Facilities Program to the completion of construction.
- b) We will work closely with the City, your prime consultants and any other specialist consultants appointed to transmit our research, knowledge and experience to your team which will carry out the detailed design and construction inspection services.
- c) We will review with you and your prime consultants all basic design alternatives with the objectives of obtaining the most functional and attractive building for the least amount of money. The review will include:
 - . Different seating configurations and building shape.
 - . Feasibility and cost of roof alternatives.
 - . Optional multi-purpose uses and cost provisions for these uses.
 - . Options and costs for specialty items such as seating, scoreboard, sound system, concessions and media facilities.
 - . Options and costs for finishes and maintenance provisions.
 - . Options and costs for electrical and mechanical services.
- d) Since Building Codes relate inadequately to a structure of this size and type, we would work closely with the City and Fire Authorities to arrive at practical and safe interpretation of the Ontario Building Code as it applies to number and width of aisles, exits, fire doors, aisle risers, fire separations, alarm and sprinkler systems.

ATTACHMENT 2: PROPOSALS

The Agency is the primary and principal consulting services provider for the following activities:

1) The Agency is the primary provider of the following services, and shall also provide the following services to the extent of its capabilities:

2) The Agency shall also provide the following services to the extent of its capabilities, and shall also provide the following services to the extent of its capabilities:

3) The Agency shall also provide the following services to the extent of its capabilities, and shall also provide the following services to the extent of its capabilities:

4) The Agency shall also provide the following services to the extent of its capabilities, and shall also provide the following services to the extent of its capabilities:

5) The Agency shall also provide the following services to the extent of its capabilities, and shall also provide the following services to the extent of its capabilities:

- e) Working with you and your other consultants, we will develop a complete set of preliminary and conceptual plans including:
- . Site plan
 - . Floor plans of all levels
 - . Building elevations
 - . Typical sections to describe the building construction
 - . Perspective sketches illustrating proposed architectural concept
 - . Diagrammatic sketches illustrating suggested structural, mechanical and electrical concepts.
 - . Report on suggested finishes
- f) During the detail design phase and the construction phase we will provide general consulting and advisory services to the City, including a review of the work performed by the prime consultant and review of all major changes to the plans.

During the past few years, the City has been a leader in the use of technology and computerized data processing.

- 1. Site plan
- 2. Floor plan of all levels
- 3. Building elevation
- 4. Typical section through the building
- 5. Perspective view of the building
- 6. General site plan showing building location, parking, etc.
- 7. Site plan showing building location, parking, etc.
- 8. Report on suggested changes

Through the actual design and the construction phase we will provide general consulting and advisory services to the City, including a review of the work performed by the design consultant and review of all major changes to the plan.

FEES

We propose charging a lump-sum fee plus expenses for each phase of the work as follows:

Part A - Space & Facilities Program

Fee	\$ 30,000
Estimated Expenses	\$ 5,000

Part B - Preliminary & Conceptual Design

Fee	\$ 190,000
Estimated Expenses	\$ 30,000

Part C - Cost Estimate

Fee	\$ 10,000
Estimated Expenses (Included in A & B)	

Part D - General Consulting Services

Fee	\$ 120,000
Estimated Expenses	\$ 60,000

For all Specialist Consulting Services as outlined in your terms of reference our fee would be \$350,000 plus expenses. Expenses would include printing expenses, travel costs, long-distance telephone calls and other out of pocket disbursements. Fees would be billed monthly according to the percentage of the work completed for each phase. Expenses would be billed monthly.

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We propose charging a fee for the first expense for each phase of the work as follows:

Part A - Study of Problem Program	Fee	\$ 20,000
Estimated Expenses		\$ 2,000
Part B - Preliminary & Conceptual Design	Fee	\$ 120,000
Estimated Expenses		\$ 30,000
Part C - Cost Estimates	Fee	\$ 10,000
Estimated Expenses (included in Part B)		
Part D - General Consulting Services	Fee	\$ 120,000
Estimated Expenses		\$ 40,000

The all Specialist Consulting Services as outlined in your terms of reference our fee would be \$320,000 plus expenses. Expenses would include printing expenses, travel costs, long-distance telephone calls and other out of pocket disbursements. Fees would be billed monthly according to the percentage of the work completed for each phase. Expenses would be billed monthly.

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